



BEFORE THE ARIZONA CORPORATION CONTINUESION

2 | COMMISSIONERS KRISTIN K. MAYES, Chairman 3 | GARY PIERCE PAUL NEWMAN 4 | SANDRA D. KENNEDY

BOB STUMP

2007 JUL -2 P 3: 49

Arizona Corporation Commission DOCKETED

JUL -2 2009

DOCKELED BA

IN THE MATTER OF THE APPLICATION OF GLOBAL WATER – SANTA CRUZ WATER COMPANY, FOR FINANCING APPROVAL IN CONNECTION WITH THE AMERICAN RECOVERY AND REINVESTMENT ACT OF

DOCKET NO.: W-20446A-09-0184

Technical Comments to Staff Report

10

11

12

13

14

15

5

6

7

8

9

2009.

Global Water – Santa Cruz Water Company ("Santa Cruz") provides these technical comments to the Staff Report dated June 26, 2009 in this docket. Santa Cruz is grateful for Staff's quick action in this matter. Santa Cruz does not object to any of Staff's recommendations or proposed conditions. However, Santa Cruz does note that some technical corrections to the Staff Report are necessary. The corrections are shown on the chart below:

16

17

18

19

20

21

	Staff Report	As corrected per WIFA
Principal Forgiveness	\$2,960,000	\$0
Expected Repayable Amount (after forgiveness)	\$740,000	\$3,700,000
Interest Rate	6.0%	2.0%

22

23

24

25

These amounts can be verified using the attached WIFA Chart entitled "Drinking Water Project Loans Subsidized Under ARRA" dated June 26, 2009. (Attached as Exhibit 1). Santa Cruz is the 30th project on the list. The column "Type of Financial Assistance" shows that subsidy is a reduced interest rate, rather than principal forgiveness. In addition, the interest rate column shows the

27

26

FACSIMILE 602-256-6800

correct interest rate, 2.0%. The interest rate and lack of principal forgiveness are also shown on the attached WIFA board resolution (Exhibit 2) and the attached WIFA Staff Analysis (Exhibit 3).

These corrections should have no impact on the financial soundness of the Ioan. As shown on Staff Schedule JCM-1, Santa Cruz' current DSC and equity ratio are very strong. Staff Schedule JCM-1, Column C assumes no principal forgiveness and a 6.0% interest rate, and shows a pro-forma DSC as 17.39 (line 13), and a pro-forma equity ratio of 94.9% (line 24). Because the loan will actually have a lower interest rate (2.0%) than shown in that scenario, the loan is clearly consistent with sound financial practices. In addition, Exhibit 4 to Santa Cruz's application (which used the correct numbers) shows the pro-forma DSC after the loan as 31.22.

In summary, using the corrected data, the loan remains financially sound. Accordingly, Santa Cruz requests that the Commission issue an order approving the proposed loan using the corrected data.

RESPECTFULLY SUBMITTED this 2nd day of July 2009

ROSHKA, DEWULF & PATTEN

Michael W. Patten Timothy J. Sabo

One Arizona Center

400 East Van Buren Street, Suite 800 Phoenix, AZ 85004

Original and 13 copies of the foregoing filed this 2nd day of July 2009 with:

Docket Control ARIZONA CORPORATION COMMISSION 1200 West Washington Street Phoenix, AZ 85007

1	Copy of the foregoing hand-delivered/mailed
2	This 2 nd day of July 2009 to:
3	Lyn Farmer, Esq. Chief Administrative Law Judge
4	Hearing Division
5	ARIZONA CORPORATION COMMISSION 1200 West Washington Street
6	Phoenix, AZ 85007
7	Janice Alward, Esq.
8	Chief Counsel, Legal Division ARIZONA CORPORATION COMMISSION
9	1200 West Washington Street Phoenix, AZ 85007
10	Ernest G. Johnson, Esq.
11	Director, Utilities Division ARIZONA CORPORATION COMMISSION
12	1200 West Washington Street
13	Phoenix, AZ 85007
14	4
15	By Mary Sppolito
16	, , ,
17	
18	
19	
20	
21	

EXHIBIT

"1"

Water Infrastructure Finance Authority American Reinvestment and Recovery Act of 2009 (ARRA)

Drinking Water Project Loans Subsidized Under ARRA Prepared Date: 6/26/2009

Note: The projects in the list below will be required to submit a Project Finance Application and will be subject to a full loan analysis which includes verification of legal, managerial financial and technical capacity. A loan will not be approved if the applicant is unable to meet all loan and ARRA requirements and is unable to meet the construction commencement date provided in the application. As a result of this analysis information and projects on this list may change.

I. Project Priority List - Projects within the ARRA capitalization grant amount: \$55.340,000.00 | *Anticipated twenty (20) year loan term.

triological months and	212		Construction	tien							Combined Interest		
	Name & Co				-410.		Type of				and Fee Rate		-
Community Name	County	County Project Description	Est. Commencement Completion Jobs	Completion	Est. Jobs	Requested Amount	Financial Assistance	ARRA Funded	Funded	Adjusted Loan Amount	(Standard or Reduced)	Green Project	Comments
1. SoHi Domestic Water Improvement District	Mohave	Supplemental Water source Interconnect Construction	6/15/2009	6 Months	12	\$800,000.00	Loan/Principal Forgiveness	\$560,000.00	\$240,000.00	\$240,000.00	Standard	No	Binding Commitment
2. Holiday Hills DWID	Yavapai	Yavapai Holiday Hills Improvement Project	6/15/2009	12 Months	4	\$200,000.00	Loan/Principal Forgiveness	\$140,000.00	\$60,000.00	\$60,000.00	Standard	οN	Binding Commitment
3. Maricopa Domestic Water Improvement District	Pinal	Well No.5 Arsenic Treatment System	6/17/2009	12 Months	V 1	\$928,430.00	Loan/Principal Forgiveness	\$649,901.00	\$278,529.00	\$278,529.00	Standard	No	Construction Started
4. Mt. Tipton Water Co.Inc.	Mohave	Well, Pump and Spring Project	1/28/2009	12 Months	2	\$140,000.00	Loan/Principal Forgiveness	\$126,000.00	\$14,000.00	\$14,000.00	Standard	Yes	Construction Started
5. Highland Pines Domestic Water Improvement District	Yavapai	Yavapai Water Main Replacement Project	6/15/2009	6 Months	8	\$650,000.00	Loan/Principal Forgiveness	\$520,000.00	\$130,000.00	\$130,000.00	Standard	Ñ	Construction Started
6. Pineview Water Company	Navajo	Navajo Gravity Flow System Project	6/17/2009	6 Months	5	\$141,988.18	Loan/Principal Forgiveness	\$113,590.54	\$28,398.18	\$28,398.18	Standard	χ°	Construction Started
7. Groom Creek Water Users Association	Francisco	Yavapai GCWUA Water System Improvements	5/30/2009	24 Months	25	\$1,600,000.00	Loan/Principal Forgiveness	\$800,000.00	\$800,000.00	\$800,000.00	Standard	No	Binding Commitment
8. Arizona American Water	Santa Cruz	Tubac Arsenic Removal	6/15/2009	12 Months	15	\$2,300,000.00	Loan/Principal Forgiveness	\$1,150,000.00	\$1,150,000.00	\$1,150,000.00	Standard	Š	Construction
9. Taylor, Town of	Navajo	Security Fencing of Sweetwater & Hole In The Hill Well	7/23/2009	12 Months	\	\$110,000.00	Loan/Principal Forgiveness	\$44,000.00	\$66,000.00	00.000,99\$	Standard	No	Binding Commitment
10. Rim Trail Domestic Water Improvement District	Gila	Rim Trail Surface Water Filtration Plant Replacement and Water Plan	4/17/2009	12 Months	2	\$145,000.00	Loan/Principal Forgiveness	\$116,000.00	\$29,000.00	\$29,000.00	Standard	Yes	Construction Started
11. El Mirage, City of Maricopa	Maricops	Cottonwood Water Line Replacement	7/13/2009	12 Months	QC	\$350,000.00	Loan/Principal Forgiveness	\$210,000.00	\$140,000.00	\$140,000.00	Standard	N	Binding Commitment
12. Willow Valley	Mohave	Mohave Meter Replacement Program	5/1/2009	6 Months	2	\$435,000.00	Loan/Principal	\$174,000.00	\$261,000.00	\$261,000.00	Standard	Yes	Construction

Water Company	w.60°1	· New York		#/40.mm	*cr econocce	and the second	Forgiveness	** ** ***	orter de la	10 to 40 to 10 to		united the second	Started
13. Payson, Town of	Gila	Payson Cragin Surface Water Project Phase I	3/1/2009	36 Months	100	\$10,585,000.00	Loan/Principal Forgiveness	\$4,000,000.00	\$6,585,000.00	\$6,585,000.00	Standard	Yes	Construction Started
14. Flagstaff, City of	Coconino	Stimulus - Sinagua Well Cocomino Connection & Well Building Expansion	6/25/2009	6 Months	8	\$775,000.00	Loan/Principal Forgiveness	\$542,500.00	\$232,500.00	\$232,500.00	Standard	>	Binding Commitment
15. Eloy, City of	Pinal	Eloy's North Toltec Water Distribution Improvements	6/17/2009	6 Months	96	\$4,000,000.00	Loan/Principal Forgiveness	\$2,800,000.00	\$1,200,000.00	\$1,200,000.00	Standard	Yes	Construction Started
16. Prescott, City of	Yavapai	Zone 39 Water Mains, Pump Station & Water Tank	4/6/2009	36 Months	200	\$8,998,096.00	Loan/Principal Forgiveness	\$4,000,000.00	\$4,998,096.00	\$4,998,096.00	Standard	Yes	Construction Started
17. Prescott, City of	Yavapai	Airport Zone North and South Loops Water Mains	5/15/2009	12 Months	75	\$3,591,880.00	Loan/Principal Forgiveness	\$2,155,128.00	\$1,436,752.00	\$1,436,752.00	Standard	No	Binding Commitment
18. Valencia Water Company	Maricopa	Evergreen 2 Well Site Construction	9/1/2008	12 Months	E.	\$2,562,500.00	Loan/Principal Forgiveness	\$1,025,000.00	\$1,537,500.00	\$1,537,500.00	Standard	Yes	Construction Started
19 Pine Creek Canyon Domestic Water Improvement District	Gila	PCCDWID Water Supply Augmentation and Emergency Power	4/17/2009	24 Months	25	\$625,000.00	Loan/Principal Forgiveness	\$312,500.00	\$312,500.00	\$312,500.00	Standard	No	Binding Commitment
20. Tempe Water Unities Department, City of	Матісора	Maricopa Western Canal Water Line	5/1/2009	12 Months	86 80	\$4,400,000.00	Loan/Principal Forgiveness	\$2,200,000.00	\$2,200,000.00	\$2,200,000.00	Standard	Yes	Construction Started
21. Mesa, City of	Maricopa	Maricopa Redrill Old Downtown Well	6/15/2009	6 Months	20	\$1,001,598.00	Loan/Principal Forgiveness	\$500,799.00	\$500,799.00	\$500,799.00	Standard	No	Construction Started
22. Phoenix, City of	Мапсора	Citywide Automatic Meter Reading Installation	6/1/2009	12 Months	10	\$8,000,000.00	Loan/Principal Forgiveness	\$3,200,000.00	\$4,800,000.00	\$4,800,000.00	Standard	Yes	Construction Started
23. Sahuarita Water Company, LLC	Pima	SWC Arsenic Treatment Plant	5/4/2009	6 Months	29	\$4,700,000.00	Loan/Principal Forgiveness	\$1,880,000.00	\$2,820,000.00	\$2,820,000.00	Standard	No	Binding Commitment
24. Water Utility of Greater Tonopah	палісора	Full SCADA Deployment and Re- Instrumentation	6/1/2009	6 Months	∞	\$1,500,000.00	Loan/Reduced CIFR	\$1,200,000.00	\$300,000.00		2.000%	Yes	Construction Started
25. Peoria, City of	Матісора	24-inch waterlines- Beardsley Road & 91st Avenue	4/30/2009	12 Months	8	\$9,710,200.00	Loan/Reduced CIFR	\$7,768,160.00	\$1,942,040.00	And the second s	2,000%	No	Construction
26. El Mirage, City of	Матісора	Dysart at Thunderbird Water Line Extension	7/6/2009	12 Months	00	\$498,000.00	Loan/Reduced CIFR	\$398,400.00	\$99,600.00	The state of the s	1.500%	No	Binding Commitment
27. Mesa, City of	татісора	Replacement of Aging Water Lines in Downtown Mesa	6/1/2009	6 Months	35	\$1,430,000.00	Loan/Reduced CIFR	\$1,144,000.00	\$286,000.00	NAME AND ADDRESS OF SPECIAL PROPERTY ADDRESS OF SPECIAL PROPERTY AND ADDRESS OF SPECIAL PROPERTY ADDRESS OF SPECIAL PROPERTY AND ADDRESS OF SPECIAL PROPERTY AND ADDRESS OF SPECIAL PROPERTY ADDRESS O	2,000%	No	Construction Started
28. Tempe Water Utilities Department, City of	Матісора	J.G. Martinez Water Treatment Maricopa Plant Upgrades - Gravity Plate Settlers / Gravity Thickeners	4/1/2009	12 Months	262	\$14,045,799.00	Loan/Reduced CIFR	\$11,236,639.20	\$2,809,159.80	TO SERVICE STATE OF THE SERVICE STATE STATE STATE O	2.000%	No	Construction Started
29. Holbrook, City of	Navajo	Rehabilitation of 3 water storage tanks	3/1/2009	12 Months	9	\$700,000.00	Loan/Reduced CIFR	\$560,000.00	\$140,000.00		1.500%	Q.	Construction Started
30. Santa Cruz Water Company	Pinal	Solar	5/15/2009	12 Months	4	\$3,700,000.00	Loan/Reduced CIFR	\$2,960,000.00	\$740,000.00		2.000%	Yes	Construction Started
31. Phoenix, City of	Магісора	Water Main Replacement Hope VI Project Area	3/9/2009	12 Months	17	\$2,000,000.00	Loan/Reduced CIFR	\$1,600,000.00	\$400,000.00		2.000%	No	Construction Started
TOTALS	West Community					890,623,491.18		\$54,086,617.74	884,086,617.74 836,536,873.00	\$29,820,074.00			

EXHIBIT

"2"

Water Infrastructure Finance Authority of Arizona

Section 1: Resolution

WHEREAS, the Water Infrastructure Finance Authority of Arizona (the "Authority") has received from Santa Cruz Water Company (the "Local Borrower) a request for a loan (the "Locan"); and

WHEREAS, the Authority has determined that the Local Borrower has met the requirements of Arizona Revised Statutes §49-1201 et seq. (the "Act") and the rules promulgated thereunder (the "Rules"); and

WHEREAS, the terms and conditions under which a Loan will be made and the obligations of the Local Borrower will be set forth in a loan agreement or bond purchase agreement (the "Loan Agreement") to be executed by the Local Borrower and the Authority.

NOW, THEREFORE BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE AUTHORITY AS FOLLOWS:

The Executive Director of the Authority is hereby authorized and directed to execute a Loan Agreement with the Local Borrower to evidence a Loan in accordance with the Act, the Rules, the Local Borrower's applications to the Authority, and the Project Summary detailed in Section 2 of this Loan Resolution.

The Executive Director and other Authority officials, as appropriate, are authorized and directed to sign any document and take such actions as necessary and appropriate to consummate the transactions contemplated by this Resolution and the Loan Agreement and to ensure that the Local Borrower has completed all requirements of the Authority as detailed in Section 3, Section 4, and Section 5 of this Loan Resolution.

This Resolution shall take effect immediately and shall terminate one year from the date of Board Action.

tung Marinete Executive Director

Dated: May 27, 2009

Chairman

Water Infrastructure Finance Authority of Arizona

Section 2: Project Summary

生有错解某些的自己。自由这个

DW 170-2009

ARRA PL Rank	<u>Master</u> PL Rank	Funding Cycle	<u>Population</u> <u>Served</u>	Type of ARRA <u>Assistance</u>	Subsidy Rate
38, 39	147, 182	DW 2009	50,334	Reduced CIFR	85%
•				2.00%	

DW170-2009 - Solar Project

A 500 kW solar project will be constructed to supplement power to the facility. The project is designed, permitted and ready for construction. The project will bring considerable power savings to the system's largest facility. It is estimated that the new panels will supply 25% of the facilities power.

DW172-2009 – SCADA System

Implementing a SCADA platform will optimize utility operations by finding and managing efficiencies, increasing the level of customer service and eliminating unnecessary expenses. Instant access to information provides the ability to make timely decisions and drive recurring costs (power, consumables) out of utility operations. Automated compliance and reporting will streamline procedures, ensure compliance and reduce costs. The project will create high tech work required for programming and implementation. The project is estimated to provide 15 months of work for engineers, programmers and construction crews.

The Santa Cruz Water Company has an extensive SCADA system that allows operators to control certain equipment throughout the distribution system. However, Santa Cruz lacks all the necessary instruments to gain the economies and efficiencies from such a system. This project is designed to instrument the Santa Cruz Water Company's infrastructure and complete the SCADA programming to reduced drive time and conserve water resources. Additional major components of the work is integrating a water distribution model with SCADA and developing and programming the expert control systems to drive water conservation.

Water Infrastructure Finance Authority of Arizona

Ad the mile highligh Committee Science

None

o Moligis Abunde Complands Desputed at a died

None

Section 3: Financial Assistance Terms & Conditions (Section 7.4 of Due Diligence)

Financial Assistance Amount: \$ 3,700,000

Primary Repayment Source: System Revenues

Secondary Repayment Source: None

Loan Term: 20 years with ARRA assigned fixed 2.00% CIFR

Frequency of Repayment: Monthly

Loan Structure: Non-Governmental-ARRA with Reduced CIFR

Debt Service Reserve Fund Requirements: WIFA Held

Repair and Replacement Fund Requirements: Local - Separate Account

Requirements Prior to Loan Execution:

Require Legal Opinion: Yes

Other: Yes

ACC confirmed debt authorization for \$3,700,000.

Requirements Prior to Construction: No Requirement

Requirement During Construction: No Requirement

Requirements Prior to Final Disbursements: No Requirement

Loan Category: Not Qualified

Water Infrastructure Finance Authority of Arizona

Policy Exceptions: None

Section 4: Technical Terms & Conditions (Section 7.2 of Due Diligence)

Observation Schedule: A

Withholding Percentage: 5%

Requirements Prior to Loan Execution: No Requirement

Requirements Prior to Construction:

Prior Review and Approval of Construction Bids: Yes

Require Construction Signs: Yes

The Local Borrower shall erect a construction sign displaying information on the Project and the funding sources. The Authority shall provide specifications for such construction signs. Construction sign must include Recovery Act Logo

Other: Yes

Notify WIFA when construction begins.

Requirements During Construction:

Prior Review of Changes in Project Scope: Yes

The Local Borrower shall submit to the Authority, for review and approval prior to execution, any change to the plans and specifications, construction contracts, Eligible Project Costs, or any other change which will effect the performance standards or purpose of the Project.

Other: No Requirement

Requirements Prior to Final Disbursements:

Require Plan of Operation: No Requirement

Require Final Approval: Yes

Other: No Requirement

Policy Exceptions: None

Water Infrastructure Finance Authority of Arizona

Section 5: Additional Notice & Reporting Requirements (Section 7.3 of Due Diligence)

WIFA to generate Press Release: Yes

Other: Yes - ARRA Reporting Requirements

EXHIBIT

"3"

American Recovery and Reinvestment Act

Santa Cruz Water Company DW 170 & 172-2009

Board Action: May 27, 2009

Project Status Committee Member Certifications:

that the request for financial assistance satisfies the requirements for Board consideration.	Signature: Date: 5/20/09 I have reviewed the application and technical documentation submitted by the applicant and have determined	I listle leafement the application and technical appartmentation against a	
		· · · · · · · · · · · · · · · · · · ·	

I have reviewed the application and financial documentation submitted by the applicant and have determined

Executive Director Certification:

I have reviewed the staff analysis of the application and related documentation and have determined that the request for financial assistance satisfies the requirements for Board consideration

Signature Jusy Mararut-Date: 5/20/09

Santa Cruz Water Company		
Tarjana ka mga mangalagi, Ti		
·		
Cindy Liles, Chief Operation Office	cer	
and the second second		
21410 North 19th Avenue Suite, S	Suite 201 Phoe	nix, AZ 85027
Type of Applicant: Gover	rnmental	X Non-Governmenta
Type of Project: X Drink	ting Water	Wastewater
System Identification #: PWS #11	1-131	
Markey Carlotter Co.		

ARRA PL	<u>Master</u>	Funding	Population	Type of ARRA	<u>Subsidy</u>
Rank	PL Rank	Cycle	Served	<u>Assistance</u>	Rate
38, 39	147, 182	DW 2009	50,334	Reduced CIFR	85%
				2.00%	

None

Section 2: Project Information

Santa Cruz Water Company serves a portion of the City of Maricopa as well as surrounding areas. Maricopa is a city in Pinal County, thirty miles south of Phoefits in the Cita River Valley. As of 2007; its population was estimated to be \$7.863; an increase of \$6,823 over the 2000 census figure of 1,040. This makes it the second largest city in the county and Arizona's nineteepth largest city. Maricopa's annexation plans during the next decade are likely to result in major growth in both population and area. The city was officially incorporated on October 15, 2003 becoming the \$8th incorporated city in Arizona.

Santa Cruz Water Company, Public Water System No. 11-131, has a 1,377,721 acre service area. It currently serves a population of approximately 50,334 and is projecting a population of 141,504 by the year 2019. It is currently served by 5 active groundwater wells with a capacity of 8,800 gpm, five storage tanks with a capacity of 6,500,000 gallons, 25 booster pumps and 4 pressure tanks. As of March 31, 2009, Santa Cruz Water Company serves approximately 16,778 customers. Santa Cruz Water Company also serves recycled water to lakes, golf courses, home owner associations and open space.

The current system has an average daily demand of 4.2 MGD, and an average day demand capacity of 6.5 MGD.

Type & Number of Connections

					
Type of User	Current	2007	2006	2005	2004
Residential	16,458	15,431	12,497	9,514	4,036
Commercial	93	74	69	35	4
Lake Golf	2	2	2	2	2
Course					
Irrigation	192	156	134	82	32
Construction	33	59	47	35	31
Total	16,778	15,722	12,749	9,668	4,105

DW170-2009 - Solar Project

A 3.0 MGD water reclamation facility which provides recycled water for irrigation purposes is currently 100% powered from the electrical grid. This is a great cost to the company.

DW172-2009 - SCADA System

A large portion of the facilities within the system do not have SCADA capability. Significant manpower is utilized performing site visits to log conditions as well as responding to alarms at remote sites. Furthermore, optimizing operation is difficult without the ability to monitor dosages, pressures, tank levels, etc.

DW170-2009 - Solar Project

A 500 kW solar project will be constructed to supplement power to the facility. The project is designed, permitted and ready for construction. The project will bring considerable power savings to the system's largest facility. It is estimated that the new panels will supply 25% of the facilities power.

DW172-2009 – SCADA System

Implementing a SCADA platform will optimize utility operations by finding and managing efficiencies, increasing the level of customer service and eliminating unnecessary expenses. Instant access to information provides the ability to make timely decisions and drive recurring costs (power, consumables) out of utility operations. Automated compliance and reporting will streamline procedures, ensure compliance and reduce costs. The project will create high tech work required for programming and implementation. The project is estimated to provide 15 months of work for engineers, programmers and construction crews.

The Santa Cruz Water Company has an extensive SCADA system that allows operators to control certain equipment throughout the distribution system. However, Santa Cruz lacks all the necessary instruments to gain the economies and efficiencies from such a system. This project is designed to instrument the Santa Cruz Water Company's infrastructure and complete the SCADA programming to reduced drive time and conserve water resources. Additional major components of the work is integrating a water distribution model with SCADA and developing and programming the expert control systems to drive water conservation.

DW 170-2009 IS A CATEGORICALLY QUALIFIED GREEN PROJECT

Energy or Water Efficiency Issues at Existing Facility Include:

This 3 MGD water reclamation facility is currently 100% powered via the electrical grid.

Green Project Elements Include:

A 500 kW solar array will supplement power to the facility and will be capable of supplying 25% of the facilities power demand.

DW 170-2009

Green Category	Estimated	Estimated	% of Total	SS Green
	Energy Cost	Water Cost	Green	Project Costs
	Savings	Savings		
Efficiency	25% total power		100%	\$2,500,000
	demand			

DW 172-2009 IS A BUSINESS CASE GREEN PROJECT

Energy or Water Efficiency Issues at Existing Facility Include:

Santa Cruz Water Company has identified that current operations are energy intensive, experiencing water losses and inefficiencies in pump operations, maintenance of adequate pressures, and power consumption.

Green Project Elements Include:

Full deployment of SCADA and re-instrumentation will allow Santa Cruz Water Company to achieve economies and efficiencies through an Advanced Pressure Management Plan which will minimize the pressure in the water distribution system during off-peak hours. The benefits are

two-fold, including reduction in energy required to maintain pressure during low use as well as reducing water lost due to unmetered leakage in the distribution system. Pump control improvements will reduce simultaneous equipment starts and pressure fluctuations, reducing power consumption (kWh) and demand, as well as reduce equipment wear. Overall, the project will assist with the preventative care of the utility by reducing power consumption (including operator travel and fuel), augmenting more efficient pumping capacities, shaving peak loading and generating improved water conservation efforts.

DW 172-2009

Green Category	Estimated Energy Cost Savings	Estimated Water Cost Savings	% of Total Green	SS Green Project Costs
Efficiency	20%		100%	\$1,000,000

Uses by Budget Item	WIFA DW 170-2009 Funding	WIFA DW 172- 2009 Funding	Local Other: Funding	Total By Use
Planning	\$15,000	\$100,000		\$115,000
Design & Engineering	\$70,000	\$75,000		\$145,000
Legal/Debt Authorization				
Financial Advisor				
Land/System Acquisition				
Equipment/Materials	\$1,800,000	\$450,000		\$2,250,000
Construction/Installation/Improvement	\$350,000	\$400,000		\$750,000
Inspection & Construction Management	\$175,000	\$150,000		\$325,000
Project Officer	\$75,000	\$20,000		\$95,000
Administration	\$15,000	\$5,000		\$20,000
Staff Training				
Capitalized Interest				
Other				
Total by Source	2,500,000	\$1,200,000		
Total for Project				\$3,700,000

Engineering Costs Reasonable?	<u>X</u>	Yes	 No
Construction Costs Reasonable?	x	Yes	No

Estimate of the number of jobs created and jobs retained in the United States and outlying areas: 29 (DW 170), 12 (DW 172) [The number is expressed as "full-time equivalent" (FTE)]

Types of jobs created and jobs retained in the United States and outlying areas:

Types of Jobs - DW 170-2009	Number of Jobs	Duration in Months
Engineering Design	2	2
Grading	1	1
Equipment Fabrication	4	2
Installation of Support Systems	8	3
Solar Power Installation	8	2
Electrical Installation	4	2
Administration	1	6
Maintenance	1	Perpetuity
TOTAL JOBS	29	

Section 3: Legal Capability	
Congressional District (s) 7 Legislative District (s) 23	
Type of Applicant: Association/Cooperative Limited Liability Corporation Sole Proprietor Association/Cooperative Value of Applicant: Sole Proprietor Association/Cooperative Value of Applicant: Sole Proprietor Value of Applicant: Sole Proprietor Value of Applicant: Sole Proprietor Value of Applicant: Va	
Significant Findings in Legal Structure Review? X No Yes	
Debt Authorized Yes X No, Scheduled: Pending with ACC N/	A
Authorized Amount: \$ To Be Determined	
On April 17, 2009, Santa Cruz Water Co. filed a financing application with the Arizo Corporation Commission requesting approval to incur long-term indebtedness from WIFA in the amount of \$3,700,000 for CW 170 & 172-2009.	ona om
Significant Findings in Debt Authorization Review? No X Yes	

Section 4: Managerial Capability X Significant Compliance Significant Non-Compliance Compliance History: Santa Cruz Water Company is in compliance with the Arizona Department of Environmental Quality, the Arizona Corporation Commission and the Arizona Department of Water Resources. X Significant Compliance Significant Non-Compliance Recent Inspection: Yes X No Are terms of officials staggered? Are officials experienced in managing similar organizations? X Yes No Trevor T. Hill Mr. Hill is cofounder and serves as President and Chief Executive Officer and a member of the Board of Directors of Global Water Resources. Prior to cofounding Global Water in 2003, he cofounded Algonquin Water Resources of America, a division of the Algonquin Power Income Fund, where he served as Director of Operations from 2000 to 2003. In 1994, Mr. Hill cofounded Hill, Murray & Associates, a design/build firm specializing in the construction and operation of water reclamation facilities in British Columbia and the Canadian Arctic. He retired from the Canadian Navy in 1994, after serving as an engineering officer and receiving the Gulf Kuwait Medal for his service in the 1991 Gulf War. Mr. Hill graduated from Royal Roads Military College with a degree in Mechanical Engineering in 1987. He attended the Royal Naval Engineering College in Plymouth, England and completed his post graduate studies in 1988. Cindy M. Liles Ms. Liles serves as Senior Vice President and Chief Operating Officer of Global Water Resources. She joined Global in 2004 upon the Company's first acquisitions, Santa Cruz Water Company and Palo Verde Utilities Company, both wholly owned subsidiaries. From 2002 until joining the Company, Ms. Liles served as the Chief Financial Officer and General Manager of those utilities. She is a certified public accountant with over 20 years of accounting and management experience with public companies, including Holiday Inns Worldwide and MidAmerica Apartment Communities, Inc. Ms. Liles graduated from Delta State University with a degree in accounting. X Yes No Are officials experienced in managing similar projects? X No Yes Is there a history of (or pending) recalls or removals of officials?

,	(million politics	at the figure application for the property of the first o		
3y-laws, r	ate ordina	nces, and connection ordinances in place?	X Yes	No
The Co	ompany is	regulated by the Arizona Corporation Commission	on.	
ndividual X_S	responsibl ystem Mai	te for day-to-day management of the system: nager Elected Official Oth	er:	
Day-to-da	y manager	experienced in managing similar organizations?	X Yes	N
Day-to-da	y manager	experienced in managing similar projects?	X Yes	s N
Philipping.	. (1914) . (1914)	(a) tau a fin		
Significan	t managen	nent impacts as the result of the proposed project	? <u>X</u> No	Ye
Pending I	itigation o	r Claims?	_X_ No	Ye
aracituda				Ja
Managem	ent Histor	y: X Stable Unstabl	le	
Managem	ent Structi	ıre: X Satisfactory Unsatis	factory	
Significa	nt Findings	in Managerial Review? X No Yes		
		Section 5: Technical Capability		
Recent In			No	omplianc
_	1		Total Years	Time in
1	Position		Experience	Position
		Grade 2C Wastewater Collection System Operator		I

Significant operating impacts due to project technology? X No		Yes	
Project Officer hired to oversee Project Development? Yes	<u>X</u>	No	
Significant findings in Technical Review? X No		Yes	
The tend was expected the entire transaction of the content of the			
Water Supply adequate for Term of Loan Agreement?	<u>X</u>	Yes	No
Obtained Certificate of Assured Water Supply from ADWR?	X	Yes	No
Significant impact due to water rights adjudication?	<u>X</u>	No	Yes
Significant findings in Water Supply Review?	<u>X</u>	No	Yes

Project Development Milestones:

DW 170-2009 - Solar Project

Event	Scheduled Completion Date		
Plan, Design & Specifications	4/01/2009		
Submitted			
Approval to Construct	4/01/2009		
Advertisement for Bid	4/15/2009		
Construction Commencement	5/15/2009		
Construction Completion	11/15/2009		
Initiate Operation	12/15/2009		

The Solar Project has been designed and is in the final stages of receiving a building permit from the City of Maricopa. The solar panel provider can have the panels on-site about 3 weeks from the date SCWC issues the purchase order. SCWC has also confirmed that the panels for this project will be provided from their U.S. factory. The solar support structures are also manufactured in the U.S. and can be onsite four weeks from purchase order.

DW 172-2009 - SCADA System

Event	Scheduled Completion Date		
Plan, Design & Specifications	Complete		
Submitted			
Approval to Construct	No Permit Required		
Advertisement for Bid	Project Awarded		
Construction Commencement	6/01/2009		
Construction Completion	7/01/2010		
Initiate Operation	8/01/2010		

Global Water Management, in preparation of this project, has detailed all instrumentation deficiencies throughout the Santa Cruz Water Company; developed process flow diagrams for all facilities; and developed the instrumentation specifications necessary to complete the project. In addition, the master PLC and radio communication network has already been installed to ensure the project is successful.

X Categorical Ex Environmenta		ding of No Si		
gradient school gebreichte bereichte bereichte bestellt der bestellt d	<u> </u>	· .		
Significant Finding	gs in Consultant Ca	pacity Review	/? <u>X</u> No Yo	es
	ers & Associates i		170-2009 Solar Projecting firm selected for th	
Section	16: Financial C	Capability 180	re Attachments C & D for	detail)
Credit Rating:	N/A:X	Fitch:	Moody's:	S&P:
Santa Cruz Wa of Santa Cruz T years 2004 th	iter Co. currently h Water Company, V	as no long-ten VIFA staff util n year resulte	tachment C for Greater Day to debt. To perform the ized annual reports filed in more than suffulting in 2008.	e historical analysis ed with the ACC for
expenses and or respectively ex WIFA debt (v Coverage Rati	nas incorporated to conservatively project, year from 20: with ARRA reduce o's (DCR) of 23.4 ne required DCR of	he 2009 San ected revenue: 10 through 20 d CIFR of 29 in 2009 incre	ta Cruz budgeted prosents and expenditures to go 13. Projections along 6) have resulted in presenting to a high of 25 ancial Assistance amount	grow by 3% and 5% with the proposed sitive Debt Service 2 in 2013. SCWC

Section 7: WIFA Staff Recommendations

Financial Assistance Amount: \$3,700,000
Primary Repayment Source: Water System Revenues
Secondary Repayment Source: None
Loan Term: 20 Years with ARRA assigned fixed 2.00% CIFR
Frequency of Repayment:
Semi-Annual X Monthly Other:
Loan Structure: Non-Governmental – ARRA With Reduced CIFR
Debt Service Reserve Fund Requirements:
X WIFA Local - Separate Local - Not Separate Surety None
Repair and Replacement Fund Requirements:
X Local - Separate Local - Not Separate None
Requirements Prior to Loan Execution: ACC confirmed debt authorization for \$3,700,000
Require Legal Opinion: X Yes No
Other:
Requirements Prior to Construction: None
Requirement During Construction: None
Requirements Prior to Final Disbursements: None
Loan Category:
Qualified, Pledged Qualified, Not Pledged _X Not Qualified
Policy Exceptions: None

Observation Schedule:
X Schedule A Schedule B Schedule C
Withholding Percentage:
15% 10%X 5%
Requirements Prior to Loan Execution: None
Requirements Prior to Construction: Notify WIFA when construction begins.
Prior Review and Approval of Construction Bids: X Yes No
Require Construction Signs: X Yes No
(Construction sign must include Recovery Act Logo - to be provided to borrower)
Other:
Requirement During Construction:
Prior Review of Changes in Project Scope: No _X_ Yes
Other:
Omer,
Requirements Prior to Final Disbursements:
Require Plan of Operation: X No Yes
Require Final Approval: No X Yes
Other:
Policy Exceptions: None
. A Colling Character of the collins of the Collins and Collins an
WIFA to generate Press Release: X Yes No
Others Vas - APD A Reporting Requirements

Prepared by the ARIZONA DEPARTMENT OF COMMERCE

Maricopa is 16 miles south of interstate 10 in western Pinal County. Over the last 160 years, its location has changed three times. Its first site was Maricopa Wells, about 10 miles northwest. a trading center for stagecoaches passing through the Southwest. The Civil War ended the mall lines and a new railroad a few miles south was the death knell for Maricopa Wells. Maricopayile, 3.5 miles wast, was born when a junction was needed to connect the Southern Pacific Reliroad linking Yuma and Tucson with a branch line to Phoenix. When Tempe wanted to be on the railroad line in 1887, Maricopaville was moved to Maricopa's current location.

Basic Information ' Founded: 1887 Incorporated: 2003 Elevation: 1,178 Located in Pinal County Nearby Highways: HWYS I-10 Enterprise Zone available

Distance to Mejor Cities: Phoenix: 15 miles Tuceon: 88 miles

Poi	อนใ	ati	an

	1990	2000	2007
Maricopa	NA	1,482	32,167
Pinal County	116,397	179,727	327,570
Arizona	3,865,226	6,130,632	6,500,194

Sources: Arizona Department of Commerce and US Consus Europa Ceta unavailable for 1890. Official Census 2000 count after Maricopa Incorporation date of 16/15/03. (ong: 1.040 for Maricopa CDP).

Principal Economic Activities

Marloopa is quickly growing as South Mountain residential developments brim over into its rich agricultural valley. Although Marloopa's businesses and industries have traditionally been geared toward farming and renching, its economic base has been diversifying through companies such as Volkswagen and Nasan, both of which have proving growing in the sees. Harsah's Ak-Chin Casino also contributes to the economy. The interest industries are particulture, must and manufacturing. iargest industries are agriculture, retail and manufacturing.

County Employment	2007
Government	18,875
Trade, Transportation, and Utilities	8,900
Leisure and Hospitality	4,725
Educational and Health Services	4,175
Mining and Construction	4,128
Manufacturing	3,900
Financial Activities	3,660
Professional and Business Services	3,650
Other Services	1,625
information	1,500

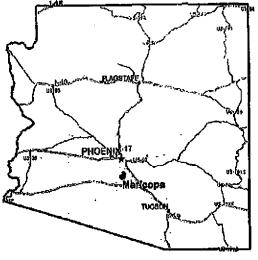
Source: Anzona Department of Commerce
Figures are organized under the North American Industrial Classification System (NAICS).

Private Employers Anzona Castings inc.

Fry's Food & Drug Store Mobile Mini Pinal Energy Yulex Corporation

Public Employers

City of Maricopa Maricopa Linified School District



Labor	Force	Data

	1990	2000	2007
Civilien Labor Force	D	515	688
Unemployed	0	27	37
Unemployment Rate	0.0%	6,2%	5.4%

Source: Arizona Department of Commerce U.S. Census data unavallable for 1990.

Growth Indicators	<u>1990</u>	2000	<u> 2007</u>
New Eldg, Permits	. 0	D	2,408
Taxable Sales (\$)	0	0	1.2 billion
(\$) euleV beseeseA teM		7.7 million	220.2 million
Sources: Arizona State Univ., AZ NOTE: Data unavariable for 1990 incomplets: One or more months	and 2000; 2007 N	AZ Tex Reson leg galblind yer	rch Assoo. Mil data

Scenic Attractions

The Estralia Mountains offer desert plants and rock-hounding areas and patroghypte. The Estralia Saliport offers introductory and serobatic flights and barnstoming rides. North is Fisebird international Receivey, featuring three road secing courses, a dreg strip, and a 120-acre private water-agort take where major speciator motor sports are held. The Him-Dak Museum, located in the Ak-Chin Indian Community, features Native American artifacts. Nearby Francisco Granda Rescrit has an 18-hots golf course. Other activities include horseback riding, qualifores hunting, clogging and soliton gin lours. Annual events include an antique car show, stanlied Friendship Daya Parade, Maricopa Stegecoach Daya & Parade, fireworks and watermeton bust, and Maricopa Agricultural Center Bar-B-Que and Air Show. Que and Air Show.

Maricopa

Community Profile

Community Facilities

ely aldiezesce are (Afron selim 61) 01-1 bde (Aluce cellm 81) 8 eleferant State Route 347 which runs through downtown Maricopa. Southern Pacific Relirosd, a stop along the route of the Sunset Limited, is currently pending approval by AMTRAK. Greyhound Bus Service is available out of Casa Grande.

Educational institutions	Public	Private
Elementary	Y	N
Middle School	Y	N
High School	Y	N

<u>Financial</u>

Government

Fire Department: Fire Department Maricopa

Law Enforcement: Pinal County Sheriff-City of Maricopa Police

Airperis Phoenix Sky Harbor International Airport, 28 miles north, or Case Grando Municipal Airport, 17 miles south

Sun Life Family Health Center, Maricopa Urgant Care Ctr. & nearby Casa Grande Regional Medical Ctr.

<u>Hotel & Lodaina</u> Number of Rooms: r/a Meeting Flooms: n/a

Capacity of Largest Facility: n/a

industrial Properties:
Approximately 9 miles southeast of Maricopa lies 640 acres of land zoned for heavy industrial use. All utilities are available to the area (except sewer), and lot prices start at about 50 cents per square foot. This combination has altracted a variety of industrial companies, including fiberglass mold making, architectural Styprioam cutting, and fiberglass race and car trailer manufacturing businesses.

Hillita

COLUMN TO SERVICE STREET		
Electricity	Arizona Public Service (Maricopa)	520.421.8400
Electricity	Electrical District No. 3	520.424.9021
Natural Ges	Southwest Gas Corp. (statewide)	600.766.9722
Telephone	Maricopa Broadband	520,568,0778
Telephone	Orbitel	800,247.1566
Telephone	Owest (statewide)	800,244,1111
Water	Global Water Company	520.568.4452
Water	Maricopa Domestic Water Dist.	520.588.2239

Cable Providers: Y Digital Switching Station: N internet Service Provider: Y

Cable Internet Service Provider: Y

Fiber Optice: N

Тахөз			
Property Tax Rate	1990	2000	2007
Elementary/High Schools	5.38	0.74	7.22
City/Fire District	0.49	1.33	3.76
Countywide	7.48	7.63	6.30
Totals	13.33	18.70	17.28

Source: Arizona Tax Research Association Source: Prizode Jax Research Passociation
NOTE: School district perticipates in the Central Arizona Vatey Institute of

2007 City/Town 2.00% 1.10% County 5.60% State

Sources: League of Arizona Cities & Towns, Arizona Dept. of Revenue

Weather

Technology (CAVIT).

	Avg. Low (°F)	Avg. High (°F)	Procip. (in.)
January	34.6	66.6	0.8
February	38.2	71.2	0.9
March	42.8	77.Q	0.9
April	48.6	66.0	0.3
May	57.4	95.4	0.1
June	66.6	105.0	0.2
July	76.1	107.3	0.8
August	74.5	104.9	1.0
September	66.5	69.9	0.7
October	53.0	68.8	8.0
November	40.7	75.2	8.0
December	34.0	0.88	1.0
Yearly Avg.	52.7	86.9	7 <i>.</i> 7

Source: Western Regional Climate Center
Western Regional Climate Center, wroo@dri.edu. Períod of record 1980-2005.
Average Total Snowfall 0.0".

This profile was prepared by the Arizona Department of Commerce Communications Division in cooperation with local sources.

For further information contact:

Maricopa Chember of Commerce P.O. Box 1203/45138 West Garvey Drive, Unit B Maricopa, AZ 85239 Phone: 520-568-9573

Website: www.mariccoachamber.com

Central Arizona Regional Economic Development Foundation

640 N. Camino Mercado, Suite 2 Casa Granda, AZ 85222

Phone: 520.835.5858, Fex: 620.836.4898

Email: injo@caradf.org

Website: www.oaredf.org



ARIZONA DEPARTMENT OF COMMERCE

1700 W. Weshington St., Suite 600, Phoenix, AZ 85007 Phone: 602.771.1100 - Fex: 502.771.1200 Web: www.szcommerce.com

Reproduction of this publication for commercial use is prohibited by A.R.S. 39-121. Permission to requinit may be granted upon written request of the Arizons Department of Commerce. Prepared on 10/20/2008

Fiscal Impact of WIFA & ARRA Financial Assistance

pinez.
13 13 15 A CONTRACT
\$226,279.86
5
\$226,279.86
45,255.97
45,255.97

Annual Fiscal Impact

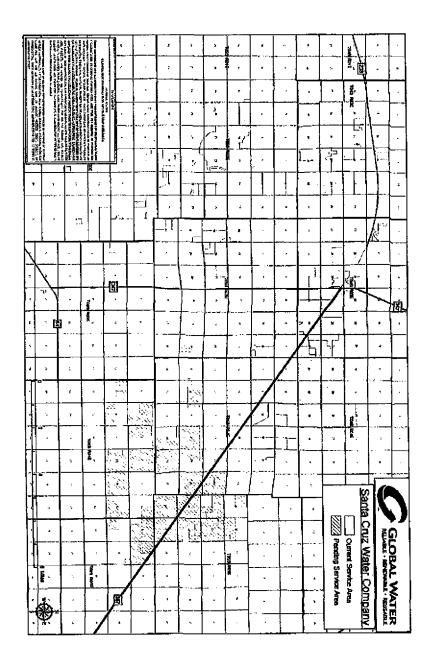
	Annual Debt	Reserve Fund	Replacement Fund	Total Annual
Year	Service	Deposit	Deposit	Fiscal Impact
1	226,279.86	45,255.97	0.00	271,535.83
2	226,279.86	45,255.97	0.00	271,535.83
3	226,279.86	45,255.97	0.00	271,535.83
4	226,279.86	45,255.97	0.00	271,535.83
5	226,279.86	45,255.97	0.00	271,535.83
6	226,279.86	0.00	45,255.97	271,535.83
7	226,279.86	0.00	45,255.97	271,535.83
8	226,279.86	0.00	45,255.97	271,535.83
9	226,279.86	0.00	45,255.97	271,535.83
10	226,279.86	0.00	45,255.97	271,535.83
11	226,279.86	0.00	45,255.97	271,535.83
12	226,279.86	0.00	45,255.97	271,535.83
13	226,279.86	0.00	45,255.97	271,535.83
14	226,279.86	0.00	45,255.97	271,535.83
15	226,279.86	0.00	45,255.97	271,535.83
16	226,279,86	0,00	45,255.97	271,535.83
17	226,279.86	0.00	45,255.97	271,535.83
18	226,279,86	0.00	45,255.97	271,535.83
19	226,279.86	0.00	45,255.97	271,535.83
20	226,279.86	0.00	45,255.97	271,535.83
_	\$4,525,597.14	\$226,279.86	\$678,839.57	\$5,430,716.57

ATTACHMENT C – HISTORICAL PERFORMANCE & TREND ANALYSIS

Corrige	Resenues after Debt Service	Total Debt Sarvice	Interest	Principal	Deht Service	Net Revenues before Debt Service	Total Operating Expenses	Other	Taxes	Maintenance & Capital	Operations (less Depreciation)	Operating Expenses	Total Revenues	Other	Interest Income	Operations	Resenues					
Día	1,444,826	0	0	0		1,444,826	595,930	0	20,325	21,541	554,064		2,040,756	1,936	ES ES	2,038,398		2004				
n/a	3,859,393	0	0	0		1,444,826 3,839,393 : 2,414,567	1,254,195	0	75,028	31,321	1,147,846		2,040,756 5,113,588 3,072,832	0	6,519	5,107,069		2005				
	2,414,567	0	0	0		2,414,567	d58,265	0	54,703	9,780	593,782		3,072,832	(2,936)	5,997	3,068,771		54.	Charge	For	H	
	107.12%	0.00%	0.00%	0.00%		107.12%	110.40%	0.00%	269.14%	45.40%	107.17%		150.57%	-100 DO%	1148.85%	150.50%		%	6	For Fiscal Years Ending December 51	Historical Revenues and Expenditures	Sant
268.86	5,990,432	22,364	22,364			167.12% 6,012,796	1,889,432	15,651	125,950	37,324	1,710,507		7,902,228 2,788,640	_	0	7,902,228		2006		ars Endin	r sanuaa	Santa Cruz Water Co
	2.131.039	22,504	22.364	0		2.153.403	635,237	13,651	50,922	0.003	562,662		2.788.640	0	(6,519)	2,795,159		tig.	Change	g Decenn	nd Expend	rter Co.
	55.22%	0.00%	0.00%	0.00%		55,80%	50.03%	0.00%	67.87%	19.17%	49.02%		54.53%	0.00%	(6.519) -100.00%	54.73%		%	88	per 31	itures	1
147.00	55.22% 6,438,120	44,098	44,096			55.80% 6,482,216	50.09% 2,342,616		250,801	72,659	49.02% 2,219,156		54.53% 9,1124,832	4,126	738	54.73% 9,020,468 1.118.240		2007				
	447, 688	22.732	21,732	0		469,470	653,184	(15,651)	124,851	35,535	508,649		7177,000	£136	288	1.118.240		Es.	Change			
	7.47%	97.17%	97.17%	2,00%		7.81%	34.57%	-100.00%	99.13%	94.07%	29.74%		18.11%	0,00%	0.00%	14.15%		%		:		
91.8	7.47% 5,626,827	17170		1	3	7.81% 5,688,948 (793.768) -12.34%	34.57% 3,764,492 1,221,870	_	99.13% 1,334,553 1,103,752	19,200	15		19.11% 9,403,440		-	14.15% 9,403,440	3	2008				
	(\$67.718)	20,022		ĺ		(793,268)	1777.00	٥					470 ma	(4) LACY	(ac)	*	,	4.	Change	i		
	-12.60%	40.0070	*V.0070	20 000V	אמרא ה	-12.24%	97.00%		440.09%	(23,199) -73,30%	7.77%		4.1370	# 140 AV - 100 E	000000 - (001)	#.00%		%		!		

ATTACHMENT D – PROJECTED PERFORMANCE

2	evenues after Debt Service 5,088,548	Total Debt Service 226,280	WIFA Debt Service 226,280	Existing Debt (P & 1)	eht Service	et Revenues before Debt Serrice 5,314,828	1000 Operating Expenses 2,570,980		Taxes 539,633	Maintenance 18,	Operations (less Depreciation) 2,299,147	erating Expenses		Total Revenues 8,191,808	Other	Interest Income	Operations 8,191	evenues						
3	&	88	280	- ,			-	-		18,200	¦				0	0	8,191,808 (2,262,622) -13.35%	· -	2009					
				ļ 		(374, 120)	920-CF- (PEC'192)	9		(1,160)	(91.432)			(1.261, 632) -13.35%	- -	0 .	52, 632)		6 4	Change				
					! !	-6.58%	(3.)d%	0,00%	-58.09%	-5.99%	-3.82%	ļ .	!	13.35%	0.00%	0.00%	13.35%		%	-				:
73.92	5,190,453	236,280	226,280	0		5,416,733 101,905	2,00,00		387,615	19,110	2,414,104	!		8,437,562	 0	0	8,437,562 245,754		2010			For Fi	Projec	
						300,101	143,049		27,94	1	114,957			245,754	0	9	245,754		69	Change		scal Year	ted Reve	Samta (
						1.97%:	2.00%	0.00%	5.00%	5.00%	5.00%			3.00%	0.00%	2.00%	3,00%		%	Se		s Endin	mes at	Santa Cirz Water Co
1439	5,292,539	226,280	226,280			1.92%: 5,518,819 102,085	3,17,070 22,074		616,993		2,534,810 120,705			8,690,689 253,127		0	8,690,689 253,127		2011			For Fiscal Years Ending December 31	Projected Revenues and Expenditures	ter Co.
						202,085	107.042		29,32	1	120,705			353.127	0	0	253,127		Eq.	Usange		ber 31	bizures	
				 		1.88%	2,000	10000	5,00%	5.00%	5.00%			3.00%	a 00%	0.00%	3.00%	ļ ļ	8	200				
24.84	5,394,666	226,280	226,280			5,620,946	, we will be	333.66	647,840	21,069	2,661,550			8,951,410	0	9	8,951,410 260.721		2012					
						102,127	. I I N	-1-	30,80	-1	12			8,951,410 200,723	0	0	260.721		64	Change				
			 			1.85%	2.000	C 00078	2.00%	5.00%				200%	0.00%	0.00%	3.00%		8	1ga				
25.29	5,496,685	226,280	226,280			5,772,965	3,000	2 406 087	080,23)	11,111	ربر			9,219,952 208,542	0	0	9,219,952		2013					-
			ļ,			102,019		7 C	265.75	_;_				208,542	0	0	268,542		84	Change	:			
				-		1.81%		2,000	0.00%	5.00%	5.00%			3,00%	0.00%	0.00%	3,00%		%	6			-	

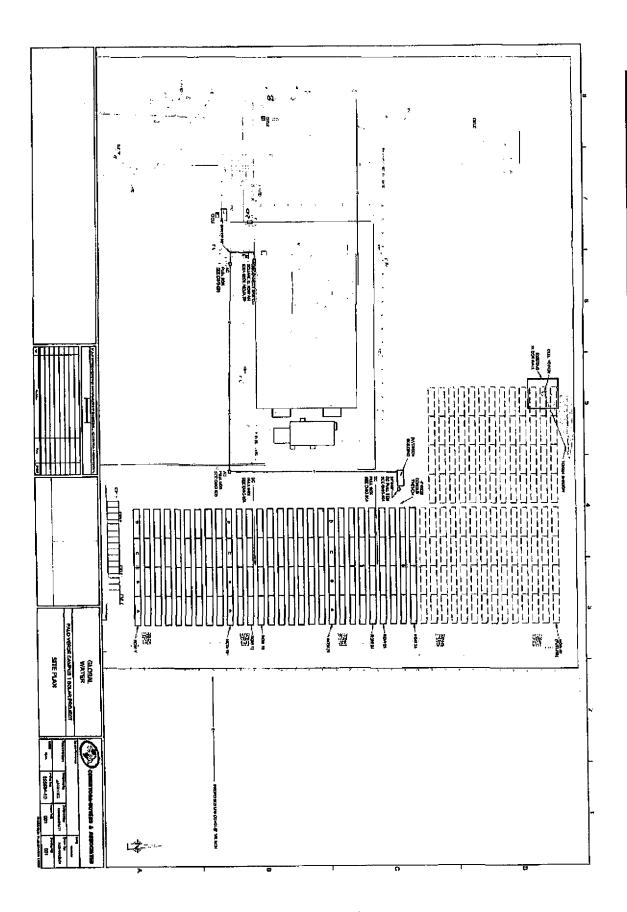


)

Santa Cruz Water Company DW 172-2009 Full SCADA Deployment & Re-instrumentation Cost Estimate with Breakdowns			
		Uses by Budget Item	WIFA Funding
		Planning	
Evaluation of Needed Components	\$30,000.00		
Due Diligence of Equipment	\$40,000.00		
Radio & Communications Planning	\$30,000.00		
Design & Engineering			
Bedrical Design	\$25,000.00		
Development of SCADA Standards	\$50,000.00		
Legal/Debt Authorization	N/A		
Financial Advisor	N/A		
Land/ System Acquisition	N/A		
Equipment/Materials	N/A		
Smith Well	\$40,000.00		
Vance Well	\$30,000.00		
Neely West Well	\$40,000.00		
Neely North Well	\$30,000.00		
Rancho Mirage Well	\$35,000.00		
Gennwilde Well	\$30,000.00		
Rancho Mirage WDC	\$50,000.00		
Rancho El Dorado WDC	\$50,000.00		
Meadows WDC	\$35,000.00		
Groves WDC	\$35,000.00		
Global Water Center	\$75,000.00		
Construction/Installation/Improvement			
Smith Well	\$40,000.00		
Vance Well	\$30,000.00		
Neely West Well	\$40,000.00		
Neely North Well	\$30,000.00		
Rancho Mirage Well	\$35,000.00		
Gennwilde Well	\$30,000.00		
Rancho Mirage WDC	\$50,000.00		
Rancho El Dorado WDC	\$10,000.00		
MeadowsWDC	\$35,000.00		
Groves WDC	\$35,000.00		
Global Water Center	\$65,000.00		
Inspection & Construction Management			
Construction Inspection	\$150,000.00		
Project Officer			
Ste Project Manager	\$20,000.00		
Administration			
Administration	\$5,000.00		
Staff Training	N/		
Capitalized Interest	NV/		
Other	N/		
Total for Project	\$1,200,000.00		

Santa Cruz Water Company DW 170-2009 Solar Project Cost Estimate with Breakdowns

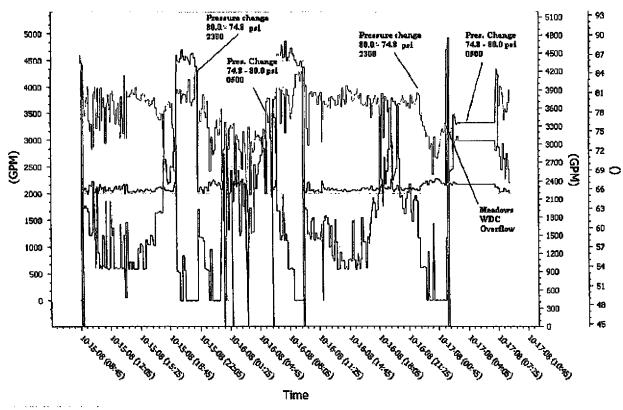
Uses by Budget Item	WIFA Funding
Panning	
Research and Development	\$15,000.00
Design & Engineering	,
CRA, PO 20209001(001)	\$6,915.62
Project Design & Engineering	\$63,084.38
Legal/Debt Authorization	N/A
Financial Advisor	NA
Land/ System Acquisition	N/A
Equipment/ Materials	NA
First Solar, Solar Panels	\$1,050,000.00
Schletter, Support Structures	\$309,034.88
Bectrical Materials	\$440,965.12
Construction/Installation/Improvement	
Land Survey, PO 20209001(005)	\$5,000.00
Bectrical	\$171,339.38
Installation (Local Operations)	\$173,660.62
Inspection & Construction Management	
Construction Inspection	\$175,000.00
Project Officer	
Ste Project Manager	\$75,000.00
Administration	
Administration	\$15,000.00
Staff Training	N/A
Capitalized Interest	N/A
Other	NVA
Total for Project	\$2,500,000.00



Page 21 of 25

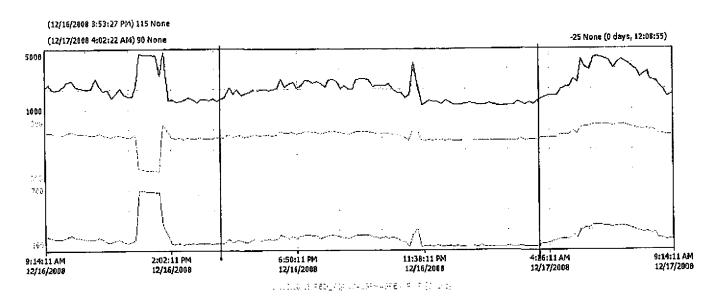
Economies and Efficiencies Generated through SCADA Cost Savings Summary 2008 - 2009

• Advanced Pressure Management Plan (APM) – This project utilizes SCADA control to minimize the pressure in the water distribution system during off-peak hours. The benefit of this program is two-fold, reducing energy requirements to maintain water pressure during low use, as well as reducing lost water due to un-metered leakage in the distribution system. Currently, a pilot study is underway which lowers the distribution system pressure by nearly 6-psi for up to six hours per day (11 pm to 5 am daily). Once the performance is documented, pressure may be reduce as much as 15 psi during off-peak hours, which may lead to savings of 1/8 the current power will or \$1,300/month.



⁻⁻⁻⁻⁻ RED_HIEFF_P5I

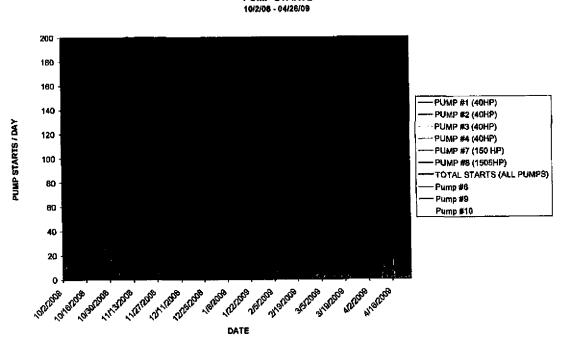
Advanced Pressure Management Program (APM) – The APM program has been ongoing since October of 2008. This program utilizes pressure drops during off-peak hours (11pm – 5am) to reduce energy consumption while reducing lost and unaccounted for water in the distribution system through reduced leakage. The first phase of this test is to monitor the power savings related to lowering the pressure 5.2 psi which correlates to operating the reservoir levels above ½ full. The graph below documents the flow (gpm), power (kilowatts (KW) and current (amps) of operating during AMP (11pm – 5am). The graph clearly shows a 25 KW reduction at identical flow rates at reduced pressure. This equates to a savings of nearly \$5,000/yr in power savings. However, considerations to reduce the pressure an additional 5 – 10 psi could increase the savings as much as \$15,000 per year, not to mention the savings in lost water revenues.



Flow vs. Power at identical flow rates with and without APM active.

 RED WDC - Pump Control Improvements – In addition to the APM program as mentioned above, The RED WDC has undergone pump control improvements which has reduced simultaneous equipment starts as well as reduced pressure fluctuations, reducing power usage (KWH), KW demand charges as well as equipment wear.

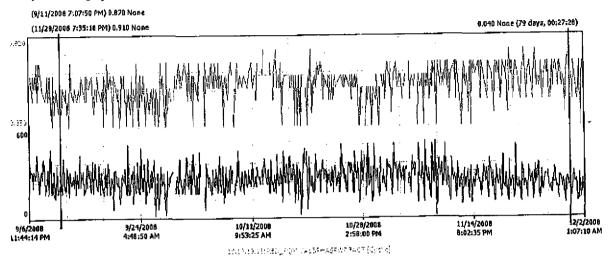
RED WDC
PUMP STARTS



RED WDC total number of pump starts per day 10/08 - 03/31

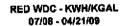
The Graph above notes the total number of pump starts per day, which has declined significantly from an average of nearly 100 starts per day to just 13 starts per day, equating to a 76% reduction in pump starts.

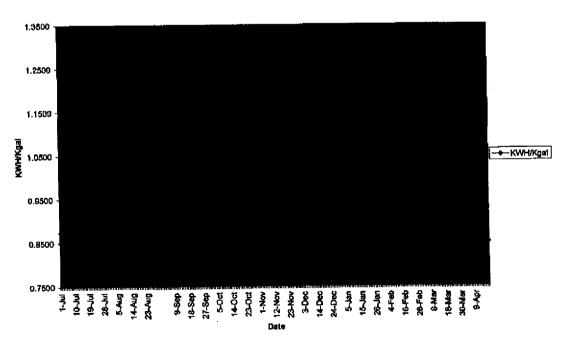
In addition, the average power factor has noticeably increased in relation to the reduced pump starts.



RED WDC Power Factor (top) and Amp Draw (bottom) 09/08-11/08

This has led to a total power reduction of over 11% reducing power from 0.9024 KWH/Kgal produced in December 2008 to 0.8016 KWH/Kgal produced in April of 2009.





RED WDC Power Usage KWH/Kgal July 2008 - March 2009

- Groves/Meadows WDC Pump and fill Optimization. Currently, these two water distribution sites are filled during off-peak hours and utilized to improve system pressure during high demand periods. However, demand requirements are reduced during winter months of operation. As well, during the pump and fill cycles, staff noted that water was actually being pumped twice during this operation. Modifying the daily pump and fill routine to once per week, can save as much as 9,600 KWH / month or an estimated \$900 per month.
- Glennwilde / Vance Well Improvements These two pumping assets represent the highest well operating cost of the well pumping facilities. Improvements would require depth specific sampling and sonar logging to determine where well screen improvements can be made to improve water flow and reduce power usage costs. Although costs savings are unknown at this time, reducing energy costs comparable to other well pumping assets would reduce power costs by as much as 30%
- RED WDC Chlorination pump control Improvements The RED WDC produces and average of 100 million gallons of potable water per month, requiring approximately. This facility represents the highest chemical consumption of all Global water production sites, averaging approximately 30,000 gallons of sodium hypochlorite per year. Process control issue identified an increased demand of disinfectant from inaccurate chemical dosing. By modifying the process control code and calibrating the chemical feed output. Chemical residuals are maintained while reducing chemical feed pump operation by nearly ½. These modifications have significantly improved chlorine residual control while reducing energy usage, requiring less pumping time and reducing chemical requirements by as much as 3,000 gallons of chemical per year, a 10% cost savings.